

4/9/84

INSTRUMENT LANDING SYSTEMS EIGHT-ELEMENT V-RING LOCALIZER
SUBJ: ANTENNA INSTALLATION DRAWINGS

1. PURPOSE. This order announces the issuance by the Program Engineering and Maintenance Service of construction and installation drawings for an eight-element V-ring localizer antenna.
2. DISTRIBUTION. This order is distributed to branch level in the Program Engineering and Maintenance and Systems Engineering Services and the Office of Airports Standards in Washington headquarters; to branch level in the regional Airway Facilities and Airports divisions (except AEU); to branch level in the FAA Depot and Academy at the Mike Monroney Aeronautical Center; and to division level in the Facilities Division at the FAA Technical Center.
3. BACKGROUND. These drawings were developed by the Northwest Mountain regional Airway Facilities Division and have been approved for use in the instrument landing system replace obsolete tube-type equipment program. The standard designs provide information necessary for the installation of eight-element V-ring localizer antenna arrays to replace existing antenna systems which have a back-course that must be preserved.
4. APPLICATION. The drawings listed in appendix 1 of this order establish facility standards to be used by the FAA regions for site engineering, construction, and installation work at locations designated to receive an eight-element V-ring localizer antenna.
 - a. The regions shall perform site adaptation engineering and provide site-adapted drawings. A resident engineer shall be assigned to the construction site. At locations where soil conditions are not known, the region is expected to take soil borings and to determine the allowable safe soil-bearing pressure data for the various foundation changes.
 - b. The drawings furnished for the foundation and site construction are intended to be used if soil conditions do not require special design. If the allowable safe soil-bearing is less than 3,000 psf, the region shall be responsible for site adapting the foundation accordingly.

Distribution: A-W(PM/ES/AS)-3; A-X(AF/AS)-3
(EXCEPT AEU); A-Y(DE/AY)-3; A-Z(AN)-2


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5. DEVIATION FROM STANDARD. No deviation from the standard, except deviations authorized in paragraph 4, is authorized without the prior approval of the Director, Program Engineering and Maintenance Service. Regional site adaptation to accommodate terrain, utility connections, parking lots, access roads, and other similar site-unique details is authorized without further clearance. Dimensional errors, discrepancies, or suggestions for modification or addition of details should be brought to the attention of the Manager, Navigation and Landing Division, APM-400, Program Engineering and Maintenance Service.

6. CORRECTIONS TO STANDARD. Corrections to the standard may be made by the Director, Program Engineering and Maintenance Service, without further regional or interservice coordination. These may include corrections of dimensional errors, misspellings, and modification, addition, or deletion of minor details.

7. DISTRIBUTION OF DRAWINGS. One reproducible copy of each drawing is being forwarded to the Aeronautical Center, Attention: Manager, FAA Depot; to the FAA Technical Center; and each region (except AEU), Attention: Airway Facilities Division. Additional copies of the drawings may be obtained from the Program Management Staff, APM-10, Program Engineering and Maintenance Service.


for Martin T. Pozesky
Director, Program Engineering and
Maintenance and Service